

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		magnet\$7 adj align\$5	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/05 08:56
		((438/15,110,113,114.ccls. and test\$3) and (dic\$5 or cut\$5) ) and (magnet\$7 adj align\$5)	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/05 08:33
L2	79	(semiconductor adj package) and @ad<="20000616") and (((align\$4 same (die or device or (integrated adj circuit) or ("IC"))) same opening) and ((ball adj grid adj array) or ("bga"))) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/12 11:13
S1	11	((("5242855") or ("3918148") or ("6175084") or ("5134539") or ("6297553") or ("5143865") or ("6389689") or ("6479887") or ("6252298") or ("6268236") or ("20010052642"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/29 08:15
S2	18	438/455,456,457,458,459,460, 461,462,464.ccls. and test\$6 and (dic\$4) and magnetic\$6 and @ad<"20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/08 09:53
S3	13	438/455,456,457,458,459,460, 461,462,464.ccls. and align\$6 and test\$6 and (dic\$4) and magnetic\$6 and @ad<"20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/08 10:00
S4	88	"438"/\$.ccls. and align\$6 and test\$6 and (dic\$4) and magnetic\$6 and @ad<"20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/08 09:54
S10	28	438/15,113,110,107,108,114,123, 455,456,457,458,459,460,461, 462,464.ccls. and align\$6 and test\$6 and (dic\$4) and magnetic\$6 and @ad<"20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/08 10:01
S11	1	("6165885").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/10/08 11:34
S12	348	(438/15).CCLS.	USPAT; USOCR	OR	OFF	2004/04/08 08:51
S13	258	(438/113).CCLS.	USPAT; USOCR	OR	OFF	2002/07/03 08:58
S14	94	(438/110).CCLS.	USPAT; USOCR	OR	OFF	2002/07/03 08:58

S15	59	(438/114).CCLS.	USPAT; USOCR	OR	OFF	2002/07/03 08:58
S16	681	438/15,110,113,114.ccls.	USPAT	OR	OFF	2002/12/19 14:38
S17	401	438/15,110,113,114.ccls. and test\$3	USPAT	OR	OFF	2001/08/07 15:09
S18	272	(438/15,110,113,114.ccls. and test\$3) and (dice\$4 or cut\$5)	USPAT	OR	OFF	2001/08/07 15:10
S19	901	438/15,110,113,114.ccls.	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/04 09:53
S20	460	438/15,110,113,114.ccls. and test\$3	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/04 09:54
S21	325	(438/15,110,113,114.ccls. and test\$3) and (dic\$5 or cut\$5)	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/06 09:25
S22	5	((("6077757") or ("6335224") or ("6309943") or ("6309909") or ("6326697")).PN.	USPAT; USOCR	OR	OFF	2004/04/08 10:12
S23	7	((("6077757") or ("6335224") or ("6309943") or ("6309909") or ("6326697") or ("5858815") or ("5137836")).PN.	USPAT; USOCR	OR	OFF	2002/02/05 09:49
S24	326	(438/15,110,113,114.ccls. and test\$3) and (dic\$5 or cut\$5)	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:10
S25	170	((438/15,110,113,114.ccls. and test\$3) and (dic\$5 or cut\$5) ) and (align\$5)	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/05 08:32
S29	248	(magnet\$7 adj align\$5) and semiconductor	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/05 08:57
S32	613	(magnet\$7 adj align\$5) and ring	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/05 08:50
S33	47	((magnet\$7 adj align\$5) and ring) and semiconductor	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/05 08:51
S34	3066	optically adj align\$5	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/05 08:56
S35	612	(optically adj align\$5) and semiconductor	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/02/05 08:57
S36	8	((("6077757") or ("6335224") or ("6309943") or ("6309909") or ("6326697") or ("5858815") or ("5137836") or ("4781969")).PN.	USPAT; USOCR	OR	OFF	2003/06/02 08:10

S37	10260	wood.inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/07/03 08:13
S38	539	wood.inv. and alan	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/07/03 08:13
S39	232	(wood.inv. and alan) and (micron adj technology)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/07/03 08:14
S40	1	("6268650").PN.	USPAT; USOCR	OR	OFF	2004/04/06 13:58
S41	425	(438/15).CCLS.	USPAT; USOCR	OR	OFF	2002/07/08 08:43
S42	331	(438/113).CCLS.	USPAT; USOCR	OR	OFF	2002/07/08 08:57
S43	140	(438/110).CCLS.	USPAT; USOCR	OR	OFF	2002/07/08 08:57
S44	90	(438/114).CCLS.	USPAT; USOCR	OR	OFF	2002/07/08 08:57
S45	425	(438/15).CCLS.	USPAT; USOCR	OR	OFF	2002/07/08 08:43
S46	331	(438/113).CCLS.	USPAT; USOCR	OR	OFF	2002/07/08 08:57
S47	140	(438/110).CCLS.	USPAT; USOCR	OR	OFF	2002/07/08 08:57
S48	90	(438/114).CCLS.	USPAT; USOCR	OR	OFF	2002/07/08 14:32
S49	13	((("6389689") or ("5977629") or ("5796170") or ("6326700") or ("6268650") or ("5858815") or ("5817535") or ("5770032") or ("4781969") or ("5073840") or ("5696033") or ("5834839") or ("6160714"))).PN.	USPAT; USOCR	OR	OFF	2002/07/08 10:35
S50	8	((("6309909") or ("5858815") or ("5137836") or ("6077757") or ("6326697") or ("6165885") or ("5834320") or ("4781969"))).PN.	USPAT; USOCR	OR	OFF	2002/07/09 09:56
S53	19	wafer adj (bond\$3 or attach\$3) near4 (dielectric adj (layer or film))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/12/19 14:07

S55	963	438/15,110,113,114.ccls.	USPAT	OR	OFF	2002/12/19 14:38
S56	1212	438/15,110,113,114.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/12/19 14:38
S58	9	(wafer adj (dielectric adj (layer or film))) same test\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/12/20 08:18
S59	13	((("5834839") or ("6389689") or ("6160714") or ("5977629") or ("6326700") or ("6268650") or ("5858815") or ("5817535") or ("5770032") or ("5796170") or ("4781969") or ("5073840") or ("5696033")).PN.	USPAT; USOCR	OR	OFF	2002/12/19 15:19
S60	85	wafer same dielectric same test\$3 same (cut\$3 or dic\$3 or slic\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/12/20 08:42
S61	78	(wafer same dielectric same test\$3 same (cut\$3 or dic\$3 or slic\$3)) and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/12/20 09:38
S62	348	(wafer same (dielectric adj (layer or film))) same test\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/12/20 09:35
S63	322	((wafer same (dielectric adj (layer or film))) same test\$3 ) and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/12/20 09:38
S64	98	((((wafer same (dielectric adj (layer or film))) same test\$3 ) and semiconductor) and (cut\$3 or dic\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/12/20 09:39
S65	1	("6424023").PN.	USPAT; USOCR	OR	OFF	2002/12/20 10:24
S66	3	((("5897337") or ("5858815") or ("6389689")).PN.	USPAT; USOCR	OR	OFF	2002/12/23 11:53
S67	2	((("5897337") or ("6389689")).PN.	USPAT; USOCR	OR	OFF	2002/12/23 11:53



S68	9187	((balls adj grid adj arrays) or (BGA)) and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/20 07:59
S69	4418	((((balls adj grid adj arrays) or (BGA)) and semiconductor) and (dic\$4 or cut\$4 or separat\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/20 08:02
S70	4476	((((balls adj grid adj arrays) or (BGA)) and semiconductor) and (dic\$4 or cut\$4 or separat\$5 or saw\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/20 08:04
S71	955	(((((balls adj grid adj arrays) or (BGA)) and semiconductor) and (dic\$4 or cut\$4 or separat\$5)) and (metal adj (film or layer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/20 08:04
S72	970	(((((balls adj grid adj arrays) or (BGA)) and semiconductor) and (dic\$4 or cut\$4 or separat\$5 or saw\$4)) and (metal adj (film or layer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/20 08:04
S73	1	("20010052642").PN.	US-PGPUB; USOCR	OR	OFF	2003/05/20 08:12
S74	472	wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/20 08:52
S75	233	(wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/12 08:09
S76	212	((wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616") and (dic\$5 or cut\$6 or saw\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/21 08:23
S77	206	((wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616") and (dic\$5 or cut\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/20 09:06

S78	1	(((wafer adj semiconductor) same (metal adj (film or layer)) same (attach\$5 or bond\$4) same ((balls adj grid adj arrays) or (BGA)) same (dic\$4 or cut\$4 or separat\$5)) same (dic\$5 or cut\$6 or saw\$5)) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/20 10:06
S79	212	((wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616") and (dic\$5 or cut\$6 or saw\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/21 09:00
S80	172	(((wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616") and (dic\$5 or cut\$6 or saw\$5) ) and dic\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/21 09:24
S81	92	(((wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616") and (dic\$5 or cut\$6 or saw\$5) ) and (dicing or diced)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/21 09:35
S82	70	(((wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616") and (dic\$5 or cut\$6 or saw\$5) ) and (dicing or diced)) and (individual\$3 or each)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/21 09:36
S83	70	(((wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616") and (dic\$5 or cut\$6 or saw\$5) ) and (dicing or diced)) and (individual\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/21 09:36

S84	6	(((((wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616") and (dic\$5 or cut\$6 or saw\$5) ) and (dicing or diced)) and (individual\$3 adj device)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/21 09:37
S85	2	((("6344401") or ("6566745")).PN.	USPAT; USOCR	OR	OFF	2004/01/12 07:56
S86	241	(wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or ("BGA")) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/12 08:10
S87	1	((wafer same (metal adj (film or layer)) same (attach\$5 or bond\$4) same ((balls adj grid adj arrays) or ("BGA")) same semiconductor same (dic\$4 or cut\$4 or separat\$5))) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/23 10:36
S88	2	((("6153448") or ("20020011859")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/24 12:35
S89	4	((("6153448") or ("20020011859") or ("6064217") or ("5475317")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/24 14:07
S90	3	((("6344401") or ("6165885") or ("5834320")).PN.	USPAT; USOCR	OR	OFF	2004/01/12 09:14
S91	244	(wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/12 08:03
S92	244	(wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/06 08:33
S93	166	((wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616") and align\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/12 08:05

S94	688	(438/455).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/01/12 08:08
S95	12	438/455,456,457,458,459,460, 461,462,464.ccls. and (wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or ("BGA")) and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/06 09:26
S96	97	"438"/\$.ccls. and (wafer and (metal adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or ("BGA")) and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/06 09:23
S97	348	(wafer and ((metal or conductive) adj (film or layer)) and (attach\$5 or bond\$4) and ((balls: adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/06 08:36
S98	229	((wafer and ((metal or conductive) adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616" ) and test\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/06 08:36
S99	85	((wafer and ((metal or conductive) adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616" ) and test\$4) and (input same output)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/06 08:37
S10 0	86	((wafer and ((metal or conductive) adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616" ) and test\$4) and (input and output)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/06 08:44



S10 1	78	(((((wafer and ((metal or conductive) adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616" ) and test\$4) and (input and output)) and (cut\$5 or dic\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/06 11:21
S10 2	24	(((((wafer and ((metal or conductive) adj (film or layer)) and (attach\$5 or bond\$4) and ((balls adj grid adj arrays) or (BGA)) and semiconductor and (dic\$4 or cut\$4 or separat\$5)) and @ad<="20000616" ) and test\$4) and (input and output)) and (cut\$5 or dic\$6)) and (conductive adj trace)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/06 11:21
S10 3	5	((("5858815") or ("4781969") or ("5073840") or ("5770032") or ("5817535")).PN.	USPAT; USOCR	OR	OFF	2004/04/08 13:56
S10 4	10	((("5073840") or ("5817535") or ("5858815") or ("6426642") or ("6214716") or ("6188232") or ("6163956") or ("6150193") or ("6060891") or ("6004867")).PN.	USPAT; USOCR	OR	OFF	2004/04/08 13:29
S10 5	10	((("5073840" "5817535" "5858815" "6426642" "6214716" "6188232" "6163956" "6150193" "6060891" "6004867").pn.) and test\$5 and (cut\$5 or dic\$6 or seperat\$5 or saw\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/08 09:30
S10 6	6	((("5073840" "5817535" "5858815" "6426642" "6214716" "6188232" "6163956" "6150193" "6060891" "6004867").pn.) and test\$5 and (cut\$5 or dic\$6 or seperat\$5 or saw\$4)) and cut\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/08 09:30
S10 7	1134	"438"/\$.ccls. and test\$6 and (dic\$4) and @ad<"20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/06 09:25
S10 8	2169	"257"/\$.ccls. and test\$6 and (dic\$4) and @ad<"20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/06 09:25
S10 9	203	438/15,110,113,114.ccls. and test\$6 and (dic\$4) and @ad<"20000616"	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/06 09:25

S11 0	199	438/455,456,457,458,459,460, 461,462,464.ccls. and test\$6 and (dic\$4) and @ad<"20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/06 09:21
S11 1	2	("6261919").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/06 13:56
S11 2	2	("6429530").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 08:13
S11 3	7	((("6163956") or ("6153448") or ("6064217") or ("6344401") or ("4781969") or ("5137836") or ("20010052642")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/10/07 10:04
S11 4	1	("5989982").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/10/07 13:52
S11 5	1	("5897334").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/10/07 13:52
S12 1	1	("6242808").PN.	USPAT; USOCR	OR	OFF	2002/07/09 09:57
S12 4	1	("6461891").PN.	USPAT; USOCR	OR	OFF	2003/05/21 09:19
S12 5	1	("6232663").PN.	USPAT; USOCR	OR	OFF	2003/06/02 09:05
S12 6	1	("6417047").PN.	USPAT; USOCR	OR	OFF	2003/06/02 09:37
S12 7	1	("6613669").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/24 14:07
S12 9	21720	"438"/\$.ccls. and align\$5 and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/12 08:10
S14 2	913	257/276,625,675,706,717,718, 720,722,796.ccls. and (heat adj sink) and fins and @ad<="20020311"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/08 09:15

S14 3	66	257/276,625,675,706,717,718, 720,722,796.ccls. and (heat adj sink) and fins and @ad<="20020311" and (planar adj surface)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/08 09:15
S14 4	76	438/122,123.ccls. and (heat adj sink) and fins and @ad<="20020311"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/08 09:16
S14 5	96	("5073840" "5817535" "5858815" "6426642" "6214716" "6188232" "6163956" "6150193" "6060891" "6004867".pn.) and test\$5 and (cut\$5 or dic\$6 or seperat\$5 or saw\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/04/08 09:29
S14 7	2	((("6113724") or ("20020181224"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/04/08 10:17
S14 8	1	("4752858").PN.	USPAT; USOCR	OR	OFF	2004/04/08 13:30
S14 9	1	("6314639").PN.	USPAT; USOCR	OR	OFF	2004/04/08 13:56
S15 0	16	((("5242855") or ("3918148") or ("6175084") or ("5134539") or ("6297553") or ("5143865") or ("6389689") or ("6479887"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/06 12:01
S15 2	12	((("6163956") or ("6153448") or ("6064217") or ("6334401") or ("4781969") or ("5137836"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 08:15
S15 5	8	((("5242855") or ("3918148") or ("6175084") or ("5134539") or ("6297553") or ("5143865") or ("6389689") or ("6479887"))).PN.	USPAT; USOCR	OR	OFF	2004/10/07 10:06
S16 1	105	438/106,107,110,113,114.ccls. and metal and (through-hole)	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:30
S16 2	730	"438"/\$.ccls. and metal and (through-hole)	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:31
S16 3	429	"257"/\$.ccls. and (metal near10 (through-hole))	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:32

S16 4	978	semiconductor and (metal near10 (through-hole))	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:32
S16 5	214	"438"/\$.ccls. and (metal near10 (through-hole))	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:13
S16 6	103	438/106,107,110,113,114.ccls. and metal and (through-hole) and (chip or die or dice or ((integrated adj circuit) or ("IC")))	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:31
S16 7	512	"438"/\$.ccls. and metal and (through-hole) and (chip or die or dice or ((integrated adj circuit) or ("IC")))	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:32
S16 8	332	"257"/\$.ccls. and (metal near10 (through-hole)) and (chip or die or dice or ((integrated adj circuit) or ("IC")))	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:32
S16 9	535	semiconductor and (metal near10 (through-hole)) and (chip or die or dice or ((integrated adj circuit) or ("IC")))	USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/07 12:32
S17 0	9	((("5242855") or ("3918148") or ("6175084") or ("5134539") or ("6297553") or ("5143865") or ("6389689") or ("6479887") or ("20010052642")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/10/07 14:03
S17 1	2	("5242855").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/06 13:47
S17 2	2	("6268236").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/08 09:19
S17 3	10	((("5242855") or ("3918148") or ("6175084") or ("5134539") or ("6297553") or ("5143865") or ("6389689") or ("6479887") or ("6252298") or ("20010052642")). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/10/08 09:29
S17 4	111	("5073840" "5817535" "5858815" "6426642" "6214716" "6188232" "6163956" "6150193" "6060891" "6004867".pn.) and test\$5 and (cut\$5 or dic\$6 or seperat\$5 or saw\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/29 08:25



S17 5	1	("20010052642").PN.	US-PGPUB	OR	OFF	2005/01/29 08:25
S17 6	17	((("5242855") or ("3918148") or ("6175084") or ("5134539") or ("6297553") or ("5143865") or ("6389689") or ("6479887") or ("6252298") or ("6268236") or ("20010052642") or ("6163956") or ("6153448") or ("6064217") or ("6344401") or ("4781969") or ("5137836")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/06 07:57
S17 7	14	((("5808874") or ("6111313") or ("6297553") or ("6153448") or ("6064217") or ("6344401") or ("6165885") or ("5137836") or ("6566745") or ("5897337") or ("6309909") or ("6326697") or ("6077757") or ("5834320")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/06 07:57
S17 8	92	(438/455,456,457,458,459,460,461,462,464.ccls. and @ad<"20000616") and (align\$6 with (optic\$5 or magnet\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/10 10:16
S17 9	92	(438/455,456,457,458,459,460,461,462,464.ccls. and @ad<"20000616") and (align\$6 with (optic\$5 or magnet\$6))	US-PGPUB; USPAT	OR	ON	2005/08/06 09:25
S18 0	30	(438/455,456,457,458,459,460,461,462,464.ccls. and @ad<"20000616") and (align\$6 near (optic\$5 or magnet\$6))	US-PGPUB; USPAT	OR	ON	2005/08/06 09:22
S18 1	92	(438/455,456,457,458,459,460,461,462,464.ccls. and @ad<"20000616") and (align\$4 with (optic\$5 or magnet\$6))	US-PGPUB; USPAT	OR	ON	2006/01/10 10:16
S18 2	30	(438/455,456,457,458,459,460,461,462,464.ccls. and @ad<"20000616") and (align\$4 with (optic\$5 or magnet\$6)) and opening	US-PGPUB; USPAT	OR	ON	2006/01/10 10:17
S18 3	3	(438/455,456,457,458,459,460,461,462,464.ccls. and @ad<"20000616") and (align\$4 with (optic\$5 or magnet\$6)) and opening and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:19

S18 4	23	("438"/\$.ccls. and @ad<"20000616") and (align\$4 with (optic\$5 or magnet\$6)) and opening and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:20
S18 5	23	("438"/\$.ccls. and @ad<="20000616") and (align\$4 with (optic\$5 or magnet\$6)) and opening and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:28
S18 6	0	(semiconductor adj pacakge) and @ad<="20000616") and ((align\$4 near5 (die or device or (integrated adj circuit) or ("IC")))) and opening and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:31
S18 7	0	(semiconductor adj pacakge) and @ad<="20000616") and (((align\$4 near5 (die or device or (integrated adj circuit) or ("IC")))) near opening) and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:32
S18 8	0	(semiconductor adj pacakge) and @ad<="20000616") and (((align\$4 with (die or device or (integrated adj circuit) or ("IC")))) with opening) and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:32
S18 9	0	(semiconductor adj pacakge) and @ad<="20000616") and (((align\$4 same (die or device or (integrated adj circuit) or ("IC")))) same opening) and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:32
S19 0	0	(semiconductor adj pacakge) and @ad<="20000616") and (((align\$4 and (die or device or (integrated adj circuit) or ("IC")))) and opening) and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:31

S19 1	231	(semiconductor adj package) and @ad<="20000616") and (((align\$4 and (die or device or (integrated adj circuit) or ("IC")) and opening) and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:31
S19 2	107	(semiconductor adj package) and @ad<="20000616") and ((align\$4 near5 (die or device or (integrated adj circuit) or ("IC")) and opening and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:31
S19 3	16	(semiconductor adj package) and @ad<="20000616") and (((align\$4 near5 (die or device or (integrated adj circuit) or ("IC")) near opening) and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:33
S19 4	63	(semiconductor adj package) and @ad<="20000616") and (((align\$4 with (die or device or (integrated adj circuit) or ("IC")) with opening) and ((ball adj grid adj array) or ("bga")) and (dic\$5 or cut\$5 or separat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/10 10:32